

Name of the WG
CAKUT, Urinary Tract Infection, Bladder Dysfunction
2023 annual report

Number of members of the WG in 2023:

Board composition in 2023: 77

Chair: Silvio Maringhini

Board members: Velibor Tasic, Marcin Tkaczyk, Demet Alaygut, Ciro Corrado, Rik Westland

Member of the YPNN: Rik Westland

Results of the vote in December for the replacement of vacant positions. Please indicate which board member is rotating off.

Silvio Maringhini

Velibor Tasic

Newly elected board member/s (serving from January 1st, 2024):

Julia Hoefele (coordinator)

Alina Hilger (councillor)

Brief description of the scope of the WG

The ESPN Working Group CAKUT/UTI/Bladder Dysfunction was formed in 2013 and is dedicated to improve educational issues, clinical studies and research related to congenital malformations of the kidney and urinary tract, urinary tract infection and bladder dysfunction. Numerous experts, clinicians and researchers throughout Europe have joined this Working Group which is open to new members at any time.

There is close collaboration of this WG with the ESPN, the CAKUT and Ciliopathies WG of the European Reference Network for Rare Kidney Diseases (ERKNet), other scientific societies (e.g. IPNA, ERA-EDTA and ASPN) and patient support organizations.

WG activities during the year 2023

In order to understand the wishes of the members of our WG a "Survey on the participation on WG activities" was sent out. Almost half of members answered and plans were made to adjust future WG activities.

A "Survey on Urinary Tract Infection in specific clinical situations" was sent to all ESPN members to verify their diagnostic and therapeutic protocols in preparation of WG guide lines.

A WG web meeting was held on June 13th, 2023. The new ESPN rules were illustrated and the new activities of the WG were planned.

Guidelines on “UTI in Europe” and “Kidney Transplantation in CAKUT” were prepared. Several web meetings with the promoters have been arranged.

Journal Club: review of recent publications on UTI, CAKUT and Bladder Dysfunction have been selected and their abstract periodically sent to the members of our WG.

Ongoing Studies: 1. APRIC Study: BP dipping in children with CAKUT (Silvio Maringhini). 2. Renal tract malformations: from human genomics to novel therapies (Adrian Woolf). 3. UTIs caused by phenotypically ESBL-producing pathogens (John Dotis) 4. EURECA Registry: European Registry for Familial CAKUT Cases. (Julia Hofele, Stefanie Weber) 5. Urinary microRNAs and Renal Scar in Acute Pyelonephritis (Demet Alaygut) 6. Uromodulin, urinary tract infections and renal scars (Ciro Corrado) 7. “Early biomarkers of obstructive congenital anomalies of the kidney and urinary tract” (Pierluigi Marzuillo). 8. EPIC: Evaluation of the Prognosis In Children with Solitary functioning kidney – an international collaboration (Sander Groen in ‘t Woud)

The Council had several web meetings. A meeting in presence of participants of clinical studies was not possible for the lack of financial support.

Publications of the WG in 2023

Antibiotic Prophylaxis in Infants with Grade III, IV, or V Vesicoureteral Reflux.

Morello W, et al. PREDICT Study Group. N Engl J Med. 2023 Sep 14;389(11):987-997

Exome sequencing in individuals with congenital anomalies of the kidney and urinary tract (CAKUT): a single-center experience.

Riedhammer KM, et al. Eur J Hum Genet. 2023 Jun;31(6):674-680

Phenotypic Variability in Siblings With Autosomal Recessive Polycystic Kidney Disease

Ramona Ajiri, et al. Kidney International Reports 2022 May 4;7(7):1643-1652. doi: 10.1016/j.ekir.2022.04.095. eCollection 2022 Jul.

Projects/plans for 2024

The results of the survey on UTI will be sent to all WG members and a paper for publication will be submitted

Webinars on interesting cases will be organized in collaboration with YPNN

Web meetings will be dedicated to each clinical research approved

Guidelines: “UTI in Europe” (promoters: Demet Alaygut, Per Brandstrom, Giovanni Montini, Johan Vande Walle, Silvio Maringhini) and “Kidney Transplantation in CAKUT”(promoters: Silvio Maringhini, Lars Pape, Rik Westland) will be prepared

Research Web Meetings will be arranged on clinical studies approved by the WG Council

Webinars to special topics will be arranged and open to all ESPN members

Silvio Maringhini

Julia Hoefele